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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,404	06/26/2006	Michel Maze	065691-0453	9088
22428 7590 FOLEY AND LARDNER LLP SUITE 500			EXAMINER	
			VANOY, TIMOTHY C	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			05/04/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/584,404 MAZE ET AL. Office Action Summary Examiner Art Unit TIMOTHY C. VANOY 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 June 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 26-50 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 26-50 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 26 June 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The specification lacks a brief description of each of the figures individually.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 26, 29, 30, 31, 32, 33, 35, 38, 45 and 46 are rejected under 35

U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a) In claim 26 line 3, the phrase "wherein it implies" is vague and indefinite. It is suggested to replace this phrase with --comprising the steps--.
- b) Regarding claims 26, 31, 32 and 38, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).
- c) In claims 29, 30, 33, 35, 45 and 46, the term "advantageously" renders the claims vague and indefinite because it is not known if the limitations following the term "advantageously" are part of the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26-50 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 02-

059,092 A (hence "JP-092").

The English abstract of JP-092 describes a method and apparatus for removing waste oil by subjecting the waste oil to what appears to be a "cold plasma" (i. e. subjecting the waste oil to a high voltage AC power means that applies high voltage AC power to an electrode to perform silent discharge between the electrode and an earth electrode) to decompose and gasify the oil molecules and providing a discharge passage for discharging the gasified oil molecule (which is evidently trapped by the same "trap").

Claims 26-50 are rejected under 35 U.S.C. 102(b) as being anticipated by US 2002/0074221 A1 to Mallison et al.

Paragraph no. 0030 in the Mallison reference describes a method and apparatus for converting a gas stream containing hydrocarbons to a reaction product effluent, comprising:

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providing an apparatus having a housing, equipped with an interior surface, an exterior surface, a 1st electrode, a 2nd electrode; a means for producing a plasma discharge between the electrodes; a means for passing the hydrocarbon-containing gas through the electrodes, and a means for collecting the reaction product effluent;

producing a plasma between the electrodes;

passing the gas stream containing the hydrocarbons through the space between the electrodes (evidently, to generate the same claimed free radical entities), and collecting the reaction product effluent (i. e. the Applicants' "trapping device").

References Made of Record

The following additional references from the examiner's search are made of record:

- U. S. Pat. 3,240,691 disclosing trapped trifluoromethyl radicals and their preparation and use, and
 - U. S. Pat. 3,006,831 disclosing the radiation of asphalts.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY C. VANOY whose telephone number is (571)272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy C Vanoy Primary Examiner Art Unit 1793

tcv

/Timothy C Vanoy/ Primary Examiner, Art Unit 1793